## JCOS Rec'd PCT/PTO 19 MAY 2005

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Hiromi IMAMURA et al. : Mail Stop: PCT

Serial No. NEW : Attorney Docket No. 2005 0822A

Filed May 19, 2005 :

ROTARY MOTOR MOLECULE V<sub>1</sub>-ATPASE [Corresponding to PCT/JP2003/012982 Filed October 9, 2003]

## **INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- [X] each U.S. Patent and U.S. Patent application publication;
- [X] each reference previously cited in the international application PCT/JP2003/012982; and/or
- [] each reference previously cited in prior parent application Serial No.
- 1a. [X] This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, **or** 

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. [] This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

- (1) [] the certification of paragraph 2 below is provided, or
- (2) [] the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.
- 1c. [] This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 2. It is hereby certified
  - a. [] that each item of information contained in this Information Disclosure

    Statement was first cited in any communication from a foreign patent office in a

    counterpart foreign application not more than three months prior to the filing of
    the Statement, or
  - b. [] that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.
- 3. [] Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4.		For each non-English language reference listed on the attached form PTO-1449, reference is made to:				
	a.	[]	a full or partial English language translation submitted herewith,			
	b.	[X]	a foreign patent office search report (in the English language) submitted herewith,			
	c.	[]	the concise explanation contained in the specification of the present application at page,			
	d.	[]	the concise explanation set forth in the attached English language abstract,			
	e.	[]	the concise explanation set forth below or on a separate sheet attached to the reference:			

Respectfully submitted,

[X] A foreign patent office search report citing one or more of the references is enclosed.

Hiromi IMAMURA et al.

Ву \_\_\_

Warren M. Cheek, Jr. Registration No. 33,367

Attorney for Applicants

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5.

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Sheet 1 of 2 INFORMATION DISCLOSURE STATEMENT									
FORM PTO 1449 (modified)				ATTY DOCKET NO. 2005_0822A	SERIAL NEW	SERIAL NO. 10/535667			
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S)				APPLICANT Hiromi IMAMURA et al.					
(Use several sheets if necessary)  Date Submitted to PTO: May 19, 2005				FILING DATE May 19, 2005					
U.S. PATENT DOCUMENTS									
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
	AA								
FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO		
	АВ		<b>.</b>						
		OTHER	DOCUMENT(S) (	Including Author, Title, Date, Pertin	ent Pages, Etc.)				
	AC	K. Yokoyama et al., "Thermus thermophilus membrane-associated ATPase, Indication of a eubacterial V-type ATPase", J. Biol. Chem., Vol. 265, No. 35, pp. 21946-21950, 1990.							
	AD	K. Yokoyama et al., "Isolation of prokaryotc V₀V₁-ATPase from a thermophilic eubacterium thermus thermophilus", J. Biol. Chem., Vol. 269, No. 16, pp. 12248-12253, 1994.							
	AE	K. Yokoyama et al., "V-ATPase of thermus thermo philus is inactivated during ATP hydrolysis but can synthesize ATP", J. Biol. Chem., Vol. 273, No. 32, pp. 20504-20510, 1998.							
	AF	K. Yokoyama et al., "V-Type H⁺-ATPase/synthase from a thermophilic eubacterium, thermus thermo philus. Subunit structure and operon", J. Biol. Chem., Vol. 275, No. 18, pp. 13955-13961, 2000.							
-	AG	Y. Kato-Yamada et al., "Direct observation of the rotation of ε subunit in F <sub>1</sub> -ATPase", J. Biol. Chem., Vol. 273, No. 31, pp. 19375-19377, 1998.							
	АН	H. Noji et al., "Direct observation of the rotation of F <sub>1</sub> -ATPase", Nature, Vol. 386, No. 6622, pp. 299-302, 1997.							
	AI	H. Imamura et al., "Evidence for rotation of V <sub>1</sub> -ATPase", Proc. Natl. Acad. Sci. U.S.A., Vol. 100, No. 5, pp. 2312-2315, March 2003.							
	AJ	K. Yokoyama et al., "Rotation of the proteolipid ring in the V-ATPase", J. Biol. Chem., Vol. 278, No. 27, pp. 24255-24258, July 4, 2003.							
	AK	S. P. Tsunoda et al., "Observations of rotation within the F <sub>0</sub> F <sub>1</sub> -ATP synthase: deciding between rotation of the F <sub>0</sub> c subunit ring and artifact", FEBS Lett., Vol. 470, No. 3, pp. 244-248, March 31, 2000.							
EXAMINER				DATE CONSIDERED					

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy this form with next communication to applicant.

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Sheet 2 of 2			INFORMA	TION DISCLOSURE STATEMEN	т			-		
FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE				ATTY DOCKET NO. 2005_0822A	SERIAL NEW	SERIAL NO 1535667				
PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S)				APPLICANT Hiromi IMAMURA et al.						
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	CLASS SUBCLASS FILING APPRO				
	ВА									
	r		FORE	EIGN PATENT DOCUMENTS	T	1				
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	CLASS SUBCLASS		TRANSLATION YES NO		
	BB									
		OTHER	DOCUMENT(S) (I	ncluding Author, Title, Date, Pertir	nent Pages, Etc.)	·- ·-				
	ВС	T. Matsui et al., "Catalytic activity of the α3β3γ complex of F,-ATPase without noncatalytic nucleotide binding site", J. Biol. Chem., Vol. 272, No. 13, pp. 8215-8221, 1997.								
	BD	D. Bald et al., "ATP synthesis by $F_0F_1$ -ATP synthase independent of noncatalytic nucleotide binding sites and insensitive to azide inhibition", J. Biol. Chem., Vol. 273, No. 2, pp. 865-870, 1998.								
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	ВК									

**EXAMINER** 

DATE CONSIDERED

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